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NATIONAL COMMUNICABLE DISEASE CENTER

Morbidity and Mortality

Vol. 16, No. 52

WEEKLY REPORT

Week Ending December 30, 1967

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

BUREAU OF DISEASE PREVENTION AND ENVIRONMENTAL CONTROL

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Epidemiologic Notes and Reports
Measles – Greer County, Oklahoma 441
Influenza – New York City Area 441
Current Trends
Measles 442
Influenza 442
Surveillance Summary
Salmonellosis – July, August, and September 1967 445
Index – Volume 16 – 1967 445

EPIDEMIOLOGIC NOTES AND REPORTS

MEASLES – Greer County, Oklahoma

An explosive outbreak of measles has been reported from Greer County, Okla. A total of 41 cases have been reported, all with onsets of illness during the week ending Dec. 30, 1967. These were the only cases reported from the entire state during December 1967.

Greer County (1960 population 8,877) is located in an agricultural and ranching area in the southwestern part of the state. Twenty-four of the 41 patients reside in Mangum (1960 population 3,950), the largest community in the county. Cases also occurred in the towns of Granite and Brinkman. The age distribution of the 24 patients in Mangum is shown in Table 1, page 442.

None of the Mangum patients resided in homes with telephones, a fair indication of the relatively low socioeconomic status of these cases. None is known to have received measles vaccine. The presence of fever, generalized rash, conjunctivitis, cough, and Koplick spots was considered diagnostic of measles.

(Continued on page 442)

Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	52nd WEEK ENDED		MEDIAN	CUMULATIVE, FIRST 52 WEEKS		
	DECEMBER 30, 1967	DECEMBER 31, 1966	1962 - 1966	1967	1966	MEDIAN 1962 - 1966
Aseptic meningitis	24	25	25	2,974	2,940	2,135
Brucellosis	2	9	9	244	252	382
Diphtheria	1	17	5	205	212	293
Encephalitis, primary:						
Arthropod-borne & unspecified	10	62	- - -	1,548	2,177	- - -
Encephalitis, post-infectious	5	7	- - -	754	713	- - -
Hepatitis, serum	71	24	715	2,374	1,487	37,652
Hepatitis, infectious	638	691		38,672	32,579	
Malaria	45	50	4	2,101	559	107
Measles (rubeola)	340	1,232	3,400	62,232	203,010	387,973
Meningococcal infections, total	51	53	53	2,165	3,388	2,813
Civilian	50	47	- - -	2,034	3,057	- - -
Military	1	6	- - -	131	331	- - -
Poliomyelitis, total	2	3	7	44	102	116
Paralytic	–	3	4	29	96	96
Rubella (German measles)	306	234	- - -	44,159	45,899	- - -
Streptococcal sore throat & scarlet fever	9,349	9,506	6,827	447,840	422,918	389,563
Tetanus	2	5	5	228	203	280
Tularemia	3	12	11	168	192	298
Typhoid fever	3	3	13	397	371	461
Typhus, tick-borne (Rky. Mt. spotted fever)	–	2	2	298	254	226
Rabies in animals	46	97	61	4,133	4,005	4,005

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	2	Rabies in man:	2
Botulism:	5	Rubella, Congenital Syndrome:	9
Leptospirosis:	45	Trichinosis:	60
Plague:	3	Typhus, murine: Wash.-1	44
Psittacosis:	44	Polio, Unsp. Calif.-1	14

MEASLES – Greer County, Oklahoma *(Continued from front page)*

Table 1
Age Distribution of 24 Patients with Measles in Mangum, Okla.

Age (Yrs.)	Cases
1	1
1-5	12
6-10	10
10	1
Total Total	24

The rapid recognition of an epidemic in an area with no recent measles has facilitated prompt control efforts. Vaccination clinics utilizing vaccine from the NCDC Epidemic Stockpile are scheduled in the county by the Oklahoma State Department of Health for January 4 and 5, 1968. *(Reported by Dr. R. LeRoy Carpenter, Director, Division of Epidemiology, Oklahoma State Department of Health; and an EIS Officer.)*

CURRENT TRENDS
MEASLES

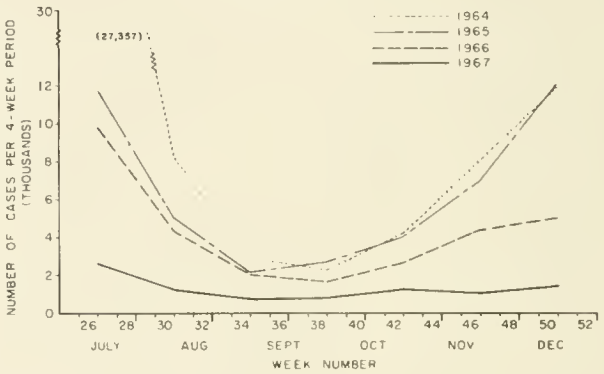
The preliminary 1967 total of 62,232 reported cases of measles is the lowest number for any year according to records dating back to 1912, when reporting of measles cases began on a national basis.

The 4-week total for December 3 through 30 is 1,493 cases (Figure 1), which is an increase of 393 over the preceding 4-week total, but is only 30 percent of the number of cases reported for the same period in 1966, and 12 percent of those reported for the same periods in 1964 and 1965.

During the past 4 weeks, 11 states reported no measles activity; 14 states and the District of Columbia reported at least one but fewer than 10 cases; and 10 states reported a total of 50 or more. Only two states (Illinois and Texas) reported more than 100 cases in this 4-week period.

(Reported by State Services Section, Epidemiology Program, NCDC.)

Figure 1
REPORTED CASES OF MEASLES IN THE UNITED STATES
4-WEEK TOTALS
JULY-DECEMBER, 1964-1967



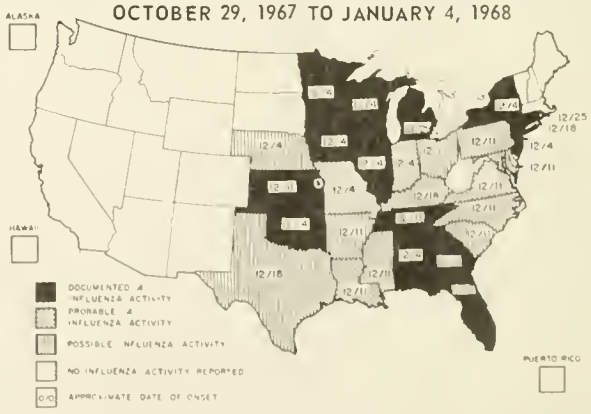
INFLUENZA

For the week ending December 30, 1967, reports from 29 states indicate that outbreaks of influenza-like illness are occurring (Figure 2). Most of the activity presently being reported began in the pre-holiday period.

Within the past week, four additional states have documented influenza A activity: Wisconsin, Tennessee, Minnesota, and Connecticut.

In Davidson County, Tenn., five paired sera taken from a single outbreak in an industry had diagnostic rises in influenza A2 antibody when tested by the hemagglutination-inhibition (HI) technique. Paired serologies taken from an outbreak in a school in southern Minnesota also showed diagnostic rises by HI tests for influenza A2 antibody. An influenza A2 virus has been grown from a specimen taken from a student at the University of Wisconsin. In addition, direct smears taken from the same student and from three other students were positive when tested by the experimental fluorescent antibody technique for A influenza. An A2 influenza virus has also been isolated by the Connecticut State Health Department from a specimen taken from Fairfield County near New York City.

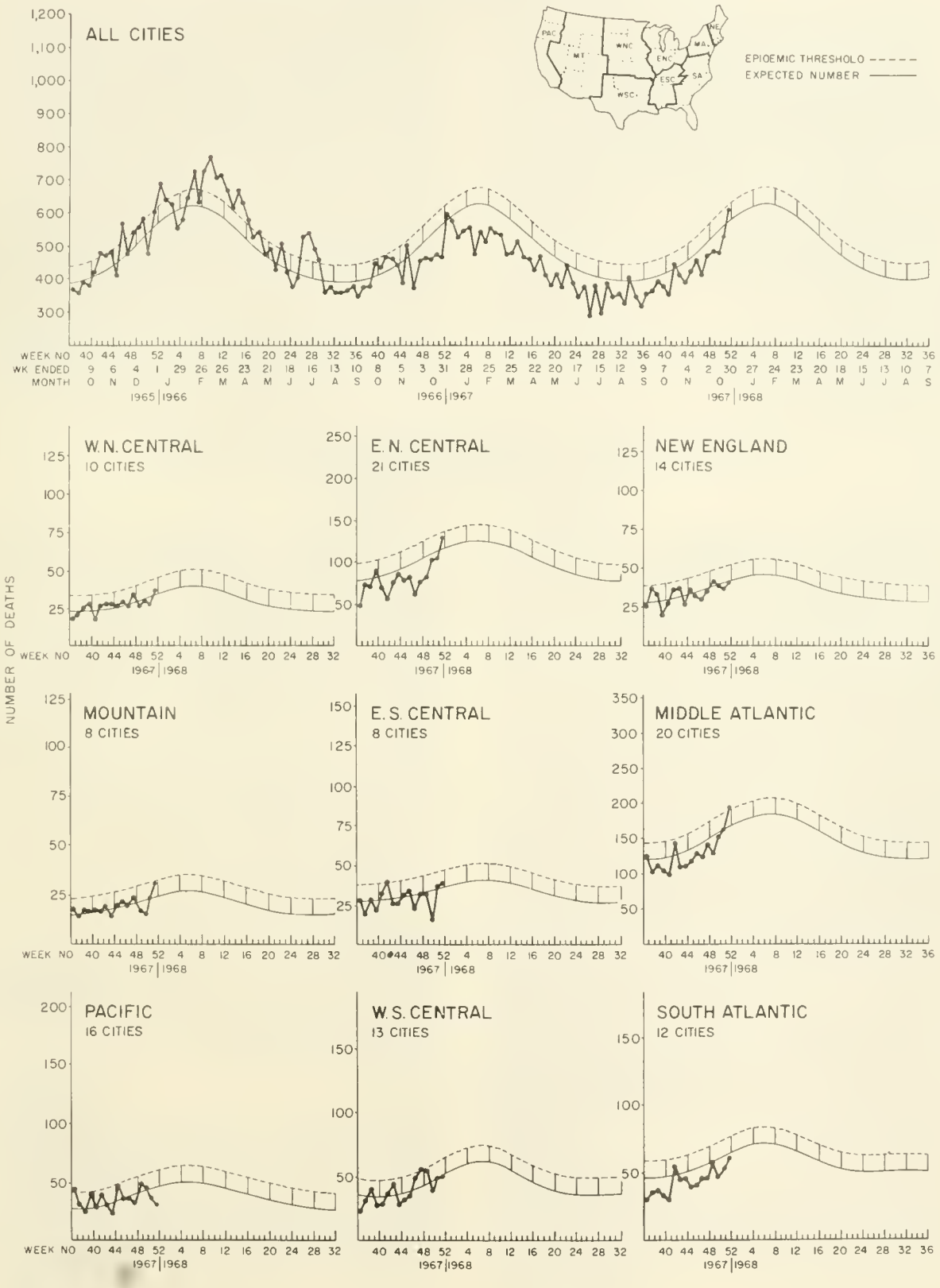
Figure 2
INCIDENCE OF INFLUENZA AND INFLUENZA-LIKE DISEASE BY STATE AS REPORTED TO NCDC
OCTOBER 29, 1967 TO JANUARY 4, 1968



Illinois, New York City, Kansas, and Georgia have reported further isolations of A2 influenza virus. New Jersey has recently isolated 1 strains of A2 influenza virus.

(Text continued on page 444)

Figure 3
PNEUMONIA-INFLUENZA DEATHS IN 122 UNITED STATES CITIES



INFLUENZA – *(Continued from page 442)*

Beginning December 25, Rhode Island has received reports from physicians of influenza-like disease occurring in all counties within the State.

There has been no excess mortality from pneumonia and influenza observed for the country as a whole (Figure 3). Eight of the nine geographic regions also have not exceeded the epidemic threshold. This week, for the first time, the Middle Atlantic Region exceeded the threshold. This is consistent with the fact that New York City had excess pneumonia mortality for the past three weeks. A more detailed account of influenza in the New York City area is presented in this issue.

(Reported by Dr. James C. Hart, Connecticut State Health Department; Dr. John McCroan and Mrs. Julia Eubanks, Georgia State Health Department; Dr. Norman Rose and Mr. Richard Norrissey, Illinois State Health Department; Dr. Donald Wilcox, Kansas State Health Department; Dr. Jack Poland, Ecological Investigations Program, NCDC, Kansas City; Dr. D. S. Fleming, Minnesota State Health Department; Dr. Ronald Altman and Dr. Martin Goldfield, New Jersey State Department of Health; Dr. Tibor Fodor and Dr. Stephen Millian, New York City Department of Health; Dr. Joseph E. Cannon, Rhode Island Department of Health; Dr. Cecil Tucker, Tennessee State Health Department; Dr. H. Grant Skinner, Wisconsin State Health Department; Dr. Stanley Inhorn and Mr. Donald Nelson, Wisconsin State Laboratory of Hygiene; Dr. Elliot Dick, Respiratory Research Unit, University of Wisconsin.)

EPIDEMIOLOGIC NOTES AND REPORTS
INFLUENZA – New York City Area

During the week of December 4, 1967, the New York City Department of Health, Division of Epidemiology, received its first report of increased school absenteeism, from a parochial junior high school. In the subsequent two weeks, reports of similar occurrences were received from 64 schools in all boroughs except Richmond. In one borough (Queens) a spot survey of three health districts revealed that 10, 12, and 35 percent of the schools in the three districts, respectively, had noted marked increases in absenteeism. In each case, absenteeism, ranging from 15 to 30 percent, was primarily attributed to a syndrome consisting of sore throat, cough, fever, and myalgia.

In addition to school absenteeism, other surveillance parameters suggested the introduction of influenza into the community. Two hospital clinics report daily the number of persons seen for upper respiratory tract diseases and specifically the influenza syndrome. Beginning the week of December 9, 1967, both noted a marked increase in the number of patients seen for upper respiratory tract diseases.

The pneumonia death curve for New York City also suggested the presence of significant respiratory disease, for beginning the week of December 9, 1967, the curve exceeded the tolerance zone and continued to do so for the following two weeks. The crude death index curve rose out of the tolerance zone for the first time the week of December 23, 1967.

Finally, informal reports were received from several industries, a university student clinic, several group-practice units, and private practitioners, of marked increase in patient visits, predominantly for upper respiratory tract diseases.

Laboratory investigations were also undertaken. The first two schools reporting increased absenteeism were were visited, and throat cultures were obtained from 45 symptomatic students. Students attending the university health clinics were similarly cultured and bled for antibody determinations, and throat cultures were also received from a number of industrial clinics participating in the city's surveillance program. As of the date of this report, a total of six virus isolates had been made from patients at each of the two schools, the university health clinic, and one industrial clinic. Each of these viruses was obtained following the third amniotic passage in eggs, and four have been typed as influenza A2.

Studies of paired sera from patients with clinical influenza demonstrated fourfold antibody rises by hemagglutination inhibition to A2 influenza strains.

The New York City Department of Health is further defining the extent to which influenza is in the community by following school absenteeism with the resumption of school sessions in the new year and by continued contact with several industrial firms. Efforts are being made to delineate the immunity of the population to the 1967 New York City influenza A2 virus.

(Reported from the New York City Department of Health by Dr. Vincent Guince, Director, Bureau of Preventable Diseases; Dr. Tibor Fodor, Chief, Division of Epidemiology, Bureau of Preventable Diseases; Dr. Morris Schaeffer, Director of Laboratories; Dr. Daniel Widelock, Deputy Director of Laboratories; Dr. Stephen Millian, Chief, Virus Unit, Division of Laboratories; and an EIS Officer.)

SURVEILLANCE SUMMARY
SALMONELLOSIS – July, August, and September 1967

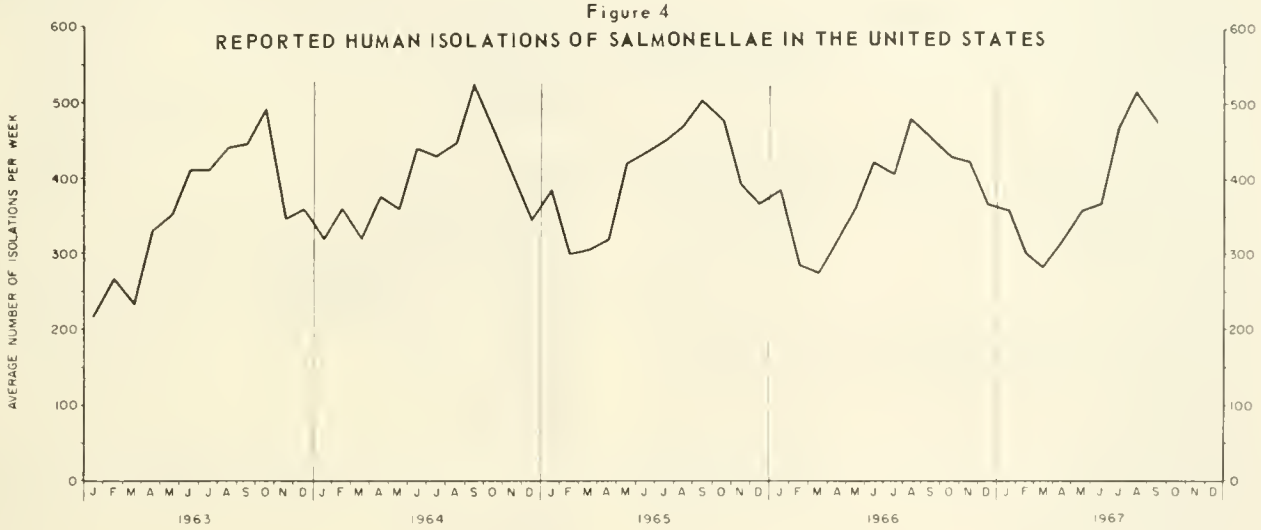
For the months of July, August, and September 1967, the total numbers of salmonellae isolations reported from humans were 1,875, 2,566, and 1,908, respectively. The weekly averages for the 3 months (469, 513, and 477) demonstrate the expected seasonal pattern(Figure 4). The age and sex distributions were similar to those of previous months. In Table 2, the seven most frequently reported serotypes from human sources are listed.

Reports of 605 nonhuman isolations represented by 66 serotypes were received from 30 states in July. The total number of reported nonhuman isolations decreased to 358 in August; 53 serotypes were represented in the reports from 25 states. In September, 275 nonhuman isolations represented by 46 serotypes were reported from 21 states. The seven most commonly reported nonhuman serotypes are listed in Table 3, page 452.

Table 2
Summary of Seven Most Frequently Reported Serotypes from Humans for July, August, and September 1967

Serotypes	Rank	Number	Percent
S. typhi-murium and *S. typhi-murium var. copenhagen*	1	1,665	26.2
S. heidelberg	2	574	9.0
S. newport	3	468	7.4
S. enteritidis	4	466	7.3
S. infantis	5	290	4.6
S. saint-paul	6	277	4.4
S. typhi	7	128	2.0
Total		3,868	60.9
Total all serotypes		6,349	100.0

Figure 4
REPORTED HUMAN ISOLATIONS OF SALMONELLAE IN THE UNITED STATES



(Continued on page 452)

INDEX – VOLUME 16 – 1967

BABESIOSIS
Epidemic Reports
California, 8

BOTULISM
Epidemic Reports
Illinois, 193
New York, 419
Summary
Annual (1966), 26
Preliminary (1967),

BRUCELLOSIS
Epidemic Reports
Virginia, 293

CARBON MONOXIDE POISONING
Epidemic Reports
Georgia, 33

CLOSTRIDIUM PERFRINGENS
Epidemic Reports
Oregon, 209

DIPHTHERIA
Epidemic Reports
Alabama, 345, 363
California, 135
Louisiana, 377

ENCEPHALITIS, ARTHROPOD-BORNE
Epidemic Reports
New Jersey, 338

INDEX – VOLUME 16 – 1967 *(Continued)*

ENCEPHALITIS, POST-INFECTIOUS
Epidemic Reports
Texas, 362
Summary
Current (Tables), 38, 171, 287, 317

GASTROENTERITIS
Epidemic Reports
Minnesota, 267
Oregon, 336
Virginia, 246
Washington, 336
West Virginia, 346
International
Canada, 336

GENERAL
Postal Fee Waived for Health Officers, 327

GUILLAIN-BARRE SYNDROME
Epidemic Reports
Arkansas, 378

HEPATITIS
Epidemic Reports
Arkansas, 351
Illinois, 395
Indiana, 229
Iowa, 395
Massachusetts, 395
New Jersey, 170
New Mexico, 46
Tennessee, 201
Texas, 302
Summary
Annual (1966-67), 258
Current, 71, 126, 179, 258, 325, 387
International
Canada, 386

INFLUENZA
Epidemic Reports
Arizona, 133, 160
Florida, 101, 409
Michigan, 101, 409
New York, 111
Summary
Annual (1966-67, U.S.), 162, 402
Current, 51, 63, 124, 417, 418, 429, 442
International
Czechoslovakia, 68
France, 68
Italy, 68
Poland, 68
Russia, 68
Yugoslavia, 68

LEUKEMIA
Epidemic Reports
Georgia, 161
Kansas, 161
Missouri, 161

MALARIA
Epidemic Reports
California, 119, 311
Connecticut, 421
Florida, 421
Kentucky, 239, 303
New York, 277, 421
Summary
Annual (1966), 202, 422
Current, 117, 247

MEASLES
Epidemic Reports
Illinois, 62, 411
Kansas, 134
Louisiana, 151
Maine, 26
New Jersey, 25
Oklahoma, 303, 441
Summary
Current, 1, 10, 17, 25, 34, 45, 54, 61, 69, 77, 85, 109, 125, 143, 238, 265, 309, 333, 352, 369, 386, 402, 411, 423, 442
Recommendations of PHS Advisory Committee on Immunization Practices – Measles, 269
Vaccine Distribution, 95

MELIOIDOSIS
Epidemic Reports
U.S., 127

MENINGITIS, ASEPTIC
Epidemic Reports
Maryland, 294, 326
South Dakota, 169

MENINGOCOCCAL INFECTION
Summary
Annual (1966), 11
Current, 135, 223
International
North Africa, 87
Group A, 228

MUMPS
Epidemic Reports
Kentucky, 420
Michigan, 370

PARAINFLUENZA
International
Trinidad, 103

PENTACHLOROPHENOL POISONING
Epidemic Reports
Missouri, 334, 360

PERTUSSIS
Epidemic Reports
Michigan, 379
Oklahoma, 318

PLAGUE
Epidemic Reports
Arizona, 222
Colorado, 215, 420
International
Nepal, 393

INDEX – VOLUME 16 – 1967 *(Continued)*

POLIOMYELITIS
Epidemic Reports
Indiana, 310, 371
Pennsylvania, 257
Summary
Annual (1966), 212
Current, 237
International
Nicaragua, 228, 319

PSITTACOSIS
Summary
Annual (1966), 287

QUARANTINE MEASURES
68, 76, 92, 100, 124, 140, 148, 160, 168, 176, 192, 215, 264, 368, 384, 408, 416, 428

RABIES
Epidemic Reports
Georgia, 150
Michigan, 268
New York, 258
Oregon, 119, 216
Rhode Island, 284
International
Canada, 150
Guam, 149

RECOMMENDATIONS OF THE PHS ADVISORY COMMITTEE ON IMMUNIZATION PRACTICES
Influenza, 210
Measles, 269
Mumps, 430
Poliomyelitis, 278
Rabies, 152

REPORTED DEATHS (IN 122 U.S. CITIES)
Pneumonia-Influenza, 63, 163, 402

RUBELLA
Epidemic Reports
Georgia, 195
Summary
Annual (1966), 248

SALMONELLOSIS
Epidemic Reports
Connecticut, 141
Georgia, 9
Illinois, 53
Maine, 141
Michigan, 18
Nebraska, 318
New Jersey, 141
New Mexico, 70
New York, 141
Washington, 178
Summary
Current, 39, 142, 294, 445
International
Germany, 302

SHIGELLOSIS
Epidemic Reports
Missouri, 276
Pennsylvania, 363
Vermont, 285
Summary
Current, 347

SMALLPOX
Epidemic Reports
Hawaii, 101, 116
Summary
Annual (1966, U.S.), 231
Current, 102, 116
International
Czechoslovakia, 87
Germany, 93
Kuwait, 184, 192
London, 360, 376
West Germany, 84, 86

STAPHYLOCOCCAL INFECTION
Epidemic Reports
Georgia, 292
New Jersey, 337
Washington, 32

STREPTOCOCCAL INFECTION
Epidemic Reports
Alaska, 103
New Jersey, 221

SYPHILIS
Summary
Annual (1966-67), 185, (1941-66), 186 (Table), 187
Current (Tables), 19, 47, 103, 127, 171, 203, 248, 268, 339, 379

TUBERCULOSIS
Epidemic Reports
New York, 195
Summary
Annual (1966, U.S.), 436

TYPHOID FEVER
Epidemic Reports
California, 177
Louisiana, 170
Oregon, 336
Washington, 162, 336
International
Canada, 332, 336

UNKNOWN ETIOLOGY
Febrile Illness, Illinois, 327
African Monkeys, Germany, 301, 316, 324, 332, 344, 353, 354, 361

VACCINIA VIRUS
Epidemic Reports
Indiana, 385, 410
Louisiana, 236

SUPPLEMENT
Errata, 437

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

DECEMBER 30, 1967 AND DECEMBER 31, 1966 (52nd WEEK)

AREA	ASEPTIC MENINGITIS		BRUCELLOSIS	DIPHTHERIA	ENCEPHALITIS			HEPATITIS			
					Primary including unsp. cases		Post-Infectious	Serum		Infectious	
	1967	1966	1967	1967	1967	1966	1967	1967	1966	1967	1966
UNITED STATES...	24	25	2	1	10	62	5	71	24	638	691
NEW ENGLAND.....	-	-	-	-	-	4	1	1	2	24	40
Maine.....	-	-	-	-	-	-	-	-	-	2	1
New Hampshire.....	-	-	-	-	-	1	-	-	-	-	7
Vermont.....	-	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	-	-	-	-	-	1	-	-	-	9	14
Rhode Island.....	-	-	-	-	-	2	-	-	-	2	8
Connecticut.....	-	-	-	-	-	-	1	1	2	11	10
MIDDLE ATLANTIC.....	-	2	-	-	-	6	-	14	11	102	105
New York City.....	-	1	-	-	-	6	-	11	10	36	29
New York, up-State.	-	-	-	-	-	-	-	-	1	17	34
New Jersey.....	-	-	-	-	-	-	-	3	-	23	13
Pennsylvania.....	-	1	-	-	-	-	-	-	-	26	29
EAST NORTH CENTRAL...	2	2	1	-	1	31	-	1	1	112	95
Ohio.....	-	-	-	-	-	29	-	-	1	32	18
Indiana.....	-	-	-	-	1	-	-	-	-	5	9
Illinois.....	-	1	-	-	-	-	-	1	-	42	21
Michigan.....	2	-	-	-	-	1	-	-	-	27	38
Wisconsin.....	-	1	1	-	-	1	-	-	-	6	9
WEST NORTH CENTRAL...	-	-	1	-	-	7	1	-	-	43	43
Minnesota.....	-	-	-	-	-	7	1	-	-	8	23
Iowa.....	-	-	1	-	-	-	-	-	-	6	8
Missouri.....	-	-	-	-	-	-	-	-	-	25	3
North Dakota.....	-	-	-	-	-	-	-	-	-	2	3
South Dakota.....	-	-	-	-	-	-	-	-	-	-	-
Nebraska.....	-	-	-	-	-	-	-	-	-	-	1
Kansas.....	-	-	-	-	-	-	-	-	-	2	5
SOUTH ATLANTIC.....	1	2	-	1	1	3	-	7	-	58	61
Delaware.....	-	-	-	-	-	-	-	-	-	4	9
Maryland.....	-	-	-	-	-	1	-	-	-	12	13
Dist. of Columbia..	-	-	-	-	-	-	-	-	-	-	1
Virginia.....	1	-	-	-	1	-	-	-	-	25	4
West Virginia.....	-	-	-	-	-	-	-	6	-	-	2
North Carolina.....	-	-	-	-	-	-	-	-	-	5	8
South Carolina.....	-	-	-	-	-	-	-	-	-	-	-
Georgia.....	-	-	-	-	-	-	-	-	-	6	15
Florida.....	-	2	-	1	-	2	-	1	-	6	9
EAST SOUTH CENTRAL...	3	1	-	-	2	3	1	-	1	28	30
Kentucky.....	-	-	-	-	-	-	-	-	-	10	6
Tennessee.....	1	1	-	-	-	-	1	-	-	12	15
Alabama.....	-	-	-	-	-	-	-	-	1	4	7
Mississippi.....	2	-	-	-	2	3	-	-	-	2	2
WEST SOUTH CENTRAL...	1	1	-	-	-	3	-	5	-	49	46
Arkansas.....	-	-	-	-	-	-	-	3	-	-	1
Louisiana.....	-	-	-	-	-	-	-	1	-	8	12
Oklahoma.....	-	-	-	-	-	1	-	-	-	9	3
Texas.....	1	1	-	-	-	2	-	1	-	32	30
MOUNTAIN.....	-	-	-	-	-	2	-	-	1	33	77
Montana.....	-	-	-	-	-	-	-	-	-	6	-
Idaho.....	-	-	-	-	-	-	-	-	-	1	3
Wyoming.....	-	-	-	-	-	-	-	-	-	-	-
Colorado.....	-	-	-	-	-	-	-	-	-	3	30
New Mexico.....	-	-	-	-	-	2	-	-	-	11	11
Arizona.....	-	-	-	-	-	-	-	-	-	11	31
Utah.....	-	-	-	-	-	-	-	-	1	1	2
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	17	17	-	-	6	3	2	43	8	189	194
Washington.....	-	1	-	-	-	-	-	-	5	9	46
Oregon.....	1	1	-	-	-	-	-	-	-	9	35
California.....	13	14	-	-	6	3	2	43	3	171	112
Alaska.....	-	-	-	-	-	-	-	-	-	-	1
Hawaii.....	3	1	-	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	-	-	-	-	-	-	16	72

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

DECEMBER 30, 1967 AND DECEMBER 31, 1966 (52nd WEEK) - CONTINUED

AREA	MALARIA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			POLIOMYELITIS			RUBELLA
			Cumulative			Cumulative		Total	Paralytic		
	1967	1967	1967	1966	1967	1967	1966	1967	1967	Cum. 1967	1967
UNITED STATES...	45	340	62,232	203,010	51	2,165	3,388	2	-	29	306
NEW ENGLAND.....	-	12	966	2,609	3	87	155	-	-	-	69
Maine.....	-	-	262	307	-	3	12	-	-	-	5
New Hampshire.....	-	-	78	80	-	4	11	-	-	-	-
Vermont.....	-	-	42	348	-	2	4	-	-	-	-
Massachusetts.....	-	7	416	844	1	39	62	-	-	-	8
Rhode Island.....	-	-	62	80	1	7	21	-	-	-	1
Connecticut.....	-	5	106	950	1	32	45	-	-	-	55
MIDDLE ATLANTIC.....	12	37	2,658	18,685	5	359	449	-	-	5	17
New York City.....	-	5	528	8,381	4	72	67	-	-	1	7
New York, Up-State.	-	21	677	2,687	-	87	116	-	-	1	7
New Jersey.....	3	9	661	2,101	-	113	140	-	-	-	2
Pennsylvania.....	9	2	792	5,516	1	87	126	-	-	3	1
EAST NORTH CENTRAL...	1	88	6,373	70,625	7	297	535	-	-	6	68
Ohio.....	1	2	1,220	6,511	2	97	157	-	-	-	11
Indiana.....	-	5	678	5,834	1	32	89	-	-	3	3
Illinois.....	-	64	1,306	11,555	3	70	97	-	-	-	16
Michigan.....	-	9	1,048	15,221	-	76	135	-	-	3	20
Wisconsin.....	-	8	2,121	31,504	1	22	57	-	-	-	18
WEST NORTH CENTRAL...	2	15	3,018	9,397	-	101	183	1	-	3	21
Minnesota.....	1	-	139	1,691	-	22	45	-	-	-	3
Iowa.....	-	7	825	5,478	-	22	23	-	-	1	16
Missouri.....	-	-	340	539	-	22	66	-	-	-	-
North Dakota.....	-	5	896	1,439	-	3	11	-	-	-	1
South Dakota.....	-	-	58	40	-	7	6	-	-	-	-
Nebraska.....	-	3	663	210	-	15	13	-	-	-	1
Kansas.....	1	-	97	NN	-	10	19	1	-	2	-
SOUTH ATLANTIC.....	16	14	7,399	16,395	11	425	571	-	-	2	16
Delaware.....	-	1	52	268	-	8	7	-	-	-	-
Maryland.....	-	-	182	2,133	3	60	54	-	-	1	8
Dist. of Columbia..	-	-	26	394	3	19	16	-	-	-	-
Virginia.....	1	4	2,346	2,276	-	47	71	-	-	-	3
West Virginia.....	-	2	1,486	5,580	-	38	46	-	-	-	3
North Carolina.....	10	3	942	830	-	88	142	-	-	1	-
South Carolina.....	-	3	517	664	2	36	55	-	-	-	1
Georgia.....	-	-	42	244	-	60	79	-	-	-	-
Florida.....	5	1	1,806	4,006	3	69	101	-	-	-	1
EAST SOUTH CENTRAL...	-	22	5,540	20,837	11	179	289	-	-	2	10
Kentucky.....	-	4	1,437	4,877	5	53	97	-	-	-	1
Tennessee.....	-	18	2,068	12,754	3	77	98	-	-	-	9
Alabama.....	-	-	1,357	1,842	3	32	63	-	-	-	-
Mississippi.....	-	-	678	1,364	-	17	31	-	-	2	-
WEST SOUTH CENTRAL...	-	111	18,346	27,649	6	276	452	-	-	11	-
Arkansas.....	-	-	1,404	1,389	2	43	38	-	-	1	-
Louisiana.....	-	-	159	144	1	105	175	-	-	1	-
Oklahoma.....	-	41	3,400	676	-	18	24	-	-	1	-
Texas.....	-	70	13,383	25,440	3	110	215	-	-	8	-
MOUNTAIN.....	5	19	4,924	12,810	1	41	95	-	-	-	17
Montana.....	-	2	339	1,935	1	6	5	-	-	-	2
Idaho.....	-	4	413	1,715	-	3	5	-	-	-	-
Wyoming.....	-	1	207	236	-	1	6	-	-	-	-
Colorado.....	5	3	1,635	1,467	-	13	49	-	-	-	3
New Mexico.....	-	3	612	1,282	-	5	10	-	-	-	-
Arizona.....	-	6	1,066	5,386	-	6	13	-	-	-	7
Utah.....	-	-	383	715	-	4	2	-	-	-	-
Nevada.....	-	-	269	74	-	3	5	-	-	-	5
PACIFIC.....	9	22	13,008	24,003	7	400	659	1	-	-	88
Washington.....	-	8	5,689	5,342	1	39	61	-	-	-	53
Oregon.....	2	4	1,717	2,596	1	32	43	-	-	-	13
California.....	5	10	5,279	15,254	5	314	533	1	-	-	21
Alaska.....	-	-	141	646	-	11	18	-	-	-	1
Hawaii.....	2	-	182	165	-	4	4	-	-	-	-
Puerto Rico.....	-	2	2,245	3,588	-	15	20	-	-	-	-

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
DECEMBER 30, 1967 AND DECEMBER 31, 1966 (52nd WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967
UNITED STATES...	9,349	2	228	3	168	3	397	-	298	46	4,133
NEW ENGLAND.....	1,110	-	3	-	1	-	10	-	1	1	100
Maine.....	54	-	-	-	-	-	-	-	-	1	25
New Hampshire.....	7	-	-	-	-	-	-	-	-	-	48
Vermont.....	26	-	-	-	-	-	-	-	-	-	20
Massachusetts.....	189	-	1	-	1	-	6	-	1	-	5
Rhode Island.....	111	-	-	-	-	-	1	-	-	-	2
Connecticut.....	723	-	2	-	-	-	3	-	-	-	-
MIDDLE ATLANTIC.....	232	-	16	-	1	1	41	-	35	-	102
New York City.....	13	-	9	-	-	-	21	-	-	-	-
New York, Up-State.	151	-	1	-	1	-	11	-	9	-	86
New Jersey.....	NN	-	1	-	-	-	4	-	15	-	-
Pennsylvania.....	68	-	5	-	-	1	5	-	11	-	16
EAST NORTH CENTRAL...	788	1	28	-	15	-	43	-	22	6	384
Ohio.....	77	-	4	-	-	-	15	-	11	5	136
Indiana.....	150	-	3	-	2	-	11	-	1	1	87
Illinois.....	125	-	13	-	13	-	7	-	10	-	72
Michigan.....	291	1	7	-	-	-	8	-	-	-	25
Wisconsin.....	145	-	1	-	-	-	2	-	-	-	64
WEST NORTH CENTRAL...	388	-	17	-	23	-	21	-	4	15	978
Minnesota.....	4	-	6	-	-	-	2	-	1	6	199
Iowa.....	123	-	2	-	2	-	3	-	-	2	136
Missouri.....	25	-	7	-	9	-	10	-	1	3	175
North Dakota.....	66	-	-	-	-	-	-	-	-	1	171
South Dakota.....	24	-	1	-	2	-	-	-	-	-	116
Nebraska.....	146	-	-	-	-	-	4	-	2	1	72
Kansas.....	-	-	1	-	10	-	2	-	-	2	109
SOUTH ATLANTIC.....	802	-	48	-	12	-	63	-	120	4	489
Delaware.....	6	-	-	-	-	-	-	-	-	-	-
Maryland.....	256	-	-	-	-	-	2	-	21	-	4
Dist. of Columbia..	-	-	-	-	-	-	3	-	-	-	6
Virginia.....	210	-	11	-	2	-	9	-	28	2	211
West Virginia.....	176	-	1	-	2	-	2	-	1	1	63
North Carolina.....	17	-	8	-	-	-	4	-	47	-	3
South Carolina.....	57	-	1	-	2	-	10	-	5	-	2
Georgia.....	19	-	4	-	5	-	21	-	18	1	120
Florida.....	61	-	23	-	1	-	12	-	-	-	80
EAST SOUTH CENTRAL...	1,349	1	35	-	13	-	65	-	53	9	794
Kentucky.....	18	-	4	-	2	-	24	-	15	9	193
Tennessee.....	1,155	-	8	-	8	-	12	-	26	-	540
Alabama.....	128	1	13	-	1	-	12	-	12	-	51
Mississippi.....	48	-	10	-	2	-	17	-	-	-	10
WEST SOUTH CENTRAL...	1,035	-	55	3	86	-	43	-	43	7	923
Arkansas.....	3	-	6	-	48	-	13	-	14	-	115
Louisiana.....	-	-	5	-	8	-	17	-	2	2	72
Oklahoma.....	21	-	4	3	23	-	8	-	16	2	361
Texas.....	1,011	-	40	-	7	-	5	-	11	3	375
MOUNTAIN.....	1,971	-	3	-	11	-	23	-	9	1	116
Montana.....	35	-	-	-	2	-	2	-	-	-	-
Idaho.....	95	-	-	-	-	-	-	-	-	-	-
Wyoming.....	24	-	-	-	2	-	2	-	-	-	5
Colorado.....	1,355	-	2	-	1	-	12	-	9	-	10
New Mexico.....	231	-	1	-	-	-	3	-	-	-	34
Arizona.....	105	-	-	-	-	-	4	-	-	1	55
Utah.....	125	-	-	-	6	-	-	-	-	-	3
Nevada.....	1	-	-	-	-	-	-	-	-	-	9
PACIFIC.....	1,674	-	23	-	6	2	88	-	11	3	247
Washington.....	910	-	-	-	2	-	2	-	2	-	2
Oregon.....	143	-	1	-	1	-	3	-	3	-	4
California.....	601	-	18	-	3	2	80	-	6	3	241
Alaska.....	9	-	-	-	-	-	-	-	-	-	-
Hawaii.....	11	-	4	-	-	-	3	-	-	-	-
Puerto Rico.....	-	-	18	-	-	1	9	-	-	1	36

Week No. 52

Table 4. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED DECEMBER 30, 1967

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over		
NEW ENGLAND:	808	516	42	30
Boston, Mass.	235	134	10	17
Bridgeport, Conn.	40	25	3	1
Cambridge, Mass.	26	18	-	1
Fall River, Mass.	40	27	2	-
Hartford, Conn.	64	48	2	3
Lowell, Mass.	48	31	2	2
Lynn, Mass.	28	21	1	1
New Bedford, Mass.	30	22	1	-
New Haven, Conn.	62	35	1	4
Providence, R. I.	65	48	4	-
Somerville, Mass.	23	15	4	-
Springfield, Mass.	55	33	7	1
Waterbury, Conn.	32	19	-	-
Worcester, Mass.	60	40	5	-
MIDDLE ATLANTIC:	3,801	2,329	192	141
Albany, N. Y.	59	40	1	4
Allentown, Pa.	33	21	3	-
Buffalo, N. Y.	151	81	4	11
Camden, N. J.	54	35	2	-
Elizabeth, N. J.	40	23	2	1
Erie, Pa.	46	24	4	-
Jersey City, N. J.	67	40	4	5
Newark, N. J.	99	55	8	5
New York City, N. Y.	2,113	1,326	113	73
Paterson, N. J.	28	16	4	2
Philadelphia, Pa.	438	243	11	12
Pittsburgh, Pa.	200	120	4	8
Reading, Pa.	61	39	3	-
Rochester, N. Y.	125	92	14	6
Schenectady, N. Y.	38	20	1	1
Scranton, Pa.	32	20	-	-
Syracuse, N. Y.	71	41	-	6
Trenton, N. J.	60	38	4	3
Utica, N. Y.	31	23	8	-
Yonkers, N. Y.	55	32	2	4
EAST NORTH CENTRAL:	2,861	1,686	129	145
Akron, Ohio	59	28	1	4
Canton, Ohio	45	28	3	2
Chicago, Ill.	954	545	52	46
Cincinnati, Ohio	175	110	6	5
Cleveland, Ohio	154	82	-	11
Columbus, Ohio	142	82	5	12
Dayton, Ohio	88	53	3	6
Detroit, Mich.	381	245	14	6
Evansville, Ind.	34	19	1	-
Flint, Mich.	65	26	5	6
Fort Wayne, Ind.	30	16	2	3
Gary, Ind.	49	29	9	3
Grand Rapids, Mich.	59	44	9	3
Indianapolis, Ind.	157	94	1	12
Madison, Wis.	49	26	-	1
Milwaukee, Wis.	114	72	2	7
Peoria, Ill.	44	22	2	3
Rockford, Ill.	43	30	2	1
South Bend, Ind.	41	25	6	2
Toledo, Ohio	111	68	6	9
Youngstown, Ohio	67	42	-	3
WEST NORTH CENTRAL:	884	555	37	45
Des Moines, Iowa	51	35	2	3
Duluth, Minn.	19	11	-	1
Kansas City, Kans.	42	33	4	3
Kansas City, Mo.	132	89	3	3
Lincoln, Nebr.	33	24	3	3
Minneapolis, Minn.	112	66	-	10
Omaha, Nebr.	79	44	1	5
St. Louis, Mo.	279	167	14	7
St. Paul, Minn.	79	51	3	4
Wichita, Kans.	58	35	7	6
SOUTH ATLANTIC:	1,148	612	61	56
Atlanta, Ga.	90	45	3	5
Baltimore, Md.	233	114	9	6
Charlotte, N. C.	49	23	2	4
Jacksonville, Fla.	81	49	5	3
Miami, Fla.	105	62	5	2
Norfolk, Va.	56	21	4	3
Richmond, Va.	86	39	5	6
Savannah, Ga.	19	7	2	1
St. Petersburg, Fla.	91	70	7	2
Tampa, Fla.	61	28	3	6
Washington, D. C.	248	137	12	17
Wilmington, Del.	29	17	4	1
EAST SOUTH CENTRAL:	531	280	39	25
Birmingham, Ala.	91	40	1	7
Chattanooga, Tenn.	30	15	6	4
Knoxville, Tenn.	39	26	1	1
Louisville, Ky.	95	55	12	3
Memphis, Tenn.	132	75	7	1
Mobile, Ala.	31	15	5	1
Montgomery, Ala.	25	16	1	2
Nashville, Tenn.	88	38	6	6
WEST SOUTH CENTRAL:	1,077	567	51	48
Austin, Tex.	27	12	4	2
Baton Rouge, La.	10	10	-	-
Corpus Christi, Tex.	21	12	-	1
Dallas, Tex.	150	73	11	10
El Paso, Tex.	35	18	1	2
Fort Worth, Tex.	86	50	3	5
Houston, Tex.	186	93	4	7
Little Rock, Ark.	35	20	4	3
New Orleans, La.	216	106	9	7
Oklahoma City, Okla.	73	43	2	5
San Antonio, Tex.	118	61	4	3
Shreveport, La.	49	26	6	1
Tulsa, Okla.	71	43	3	2
MOUNTAIN:	516	319	31	20
Albuquerque, N. Mex.	55	35	9	4
Colorado Springs, Colo.	32	20	1	2
Denver, Colo.	115	72	6	4
Ogden, Utah	24	15	2	1
Phoenix, Ariz.	149	84	9	7
Pueblo, Colo.	14	12	2	-
Salt Lake City, Utah	53	36	-	1
Tucson, Ariz.	74	45	2	1
PACIFIC:	1,422	879	31	47
Berkeley, Calif.	19	12	-	-
Fresno, Calif.	60	40	1	4
Glendale, Calif.	31	24	-	-
Honolulu, Hawaii	42	19	2	2
Long Beach, Calif.	104	71	2	4
Los Angeles, Calif.	425	244	10	13
Oakland, Calif.	75	42	2	1
Pasadena, Calif.	29	27	2	1
Portland, Oreg.	126	70	-	4
Sacramento, Calif.	62	41	1	2
San Diego, Calif.	97	56	3	4
San Francisco, Calif.	162	100	4	3
San Jose, Calif.	44	34	-	2
Seattle, Wash.	66	39	4	3
Spokane, Wash.	50	35	-	3
Tacoma, Wash.	30	25	-	1
Total	13,048	7,743	613	557

Cumulative Totals
including reported corrections for previous weeks

All Causes, All Ages	642,692
All Causes, Age 65 and over	367,659
Pneumonia and Influenza, All Ages	22,720
All Causes, Under 1 Year of Age	32,363

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SALMONELLOSIS – *(Continued from page 445)*

Table 3
Summary of Seven Most Frequently Reported Seratypes from Nonhumans for July, August, and September 1967

Serotypes	Rank	Number	Percent
S. typhi-murium and *S. typhi-murium var. copenhagen*	1	187	15.1
S. heidelberg	2	120	9.7
S. tennessee	3	95	7.7
S. anatum	4	70	5.7
S. eimsbuettel	5	42	3.4
S. cubana	6	34	2.7
S. montevideo	7	28	2.3
S. senftenberg	7	28	2.3
Total		604	48.9
Total all serotypes		1,238	100.0

(Reported by the Salmonellosis Unit, Bacterial Diseases Section, Epidemiology Program, NCDC.)

ERRATA, Vol. 16, No. 51

The third paragraph (first paragraph on page 430) reading: "In Kansas, ..." should have read

> "In Kansas, hemagglutination inhibition tests on groups of acute and convalescent sera taken from a Kansas City high school show a significant rise in geometric mean titer against an influenza A2 antigen but not against an influenza B antigen. In addition, the Ecological Investigations Program, Kansas City, has isolated an A2 influenza virus from an outbreak in Franklin County."

The smears tested for fluorescent antibody in Louisiana were nasopharyngeal smears and not throat smears.

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 17,000, IS PUBLISHED AT THE NATIONAL COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

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IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE NATIONAL COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE INVESTIGATIONS WHICH ARE OF CURRENT INTEREST TO HEALTH OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OF COMMUNICABLE DISEASES. SUCH COMMUNICATIONS SHOULD BE ADDRESSED TO:

NATIONAL COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333
ATTN: THE EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

U.S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
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